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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ़”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 8965 (1978): Retractor, Deaver's Pattern [MHD 1:
Surgical Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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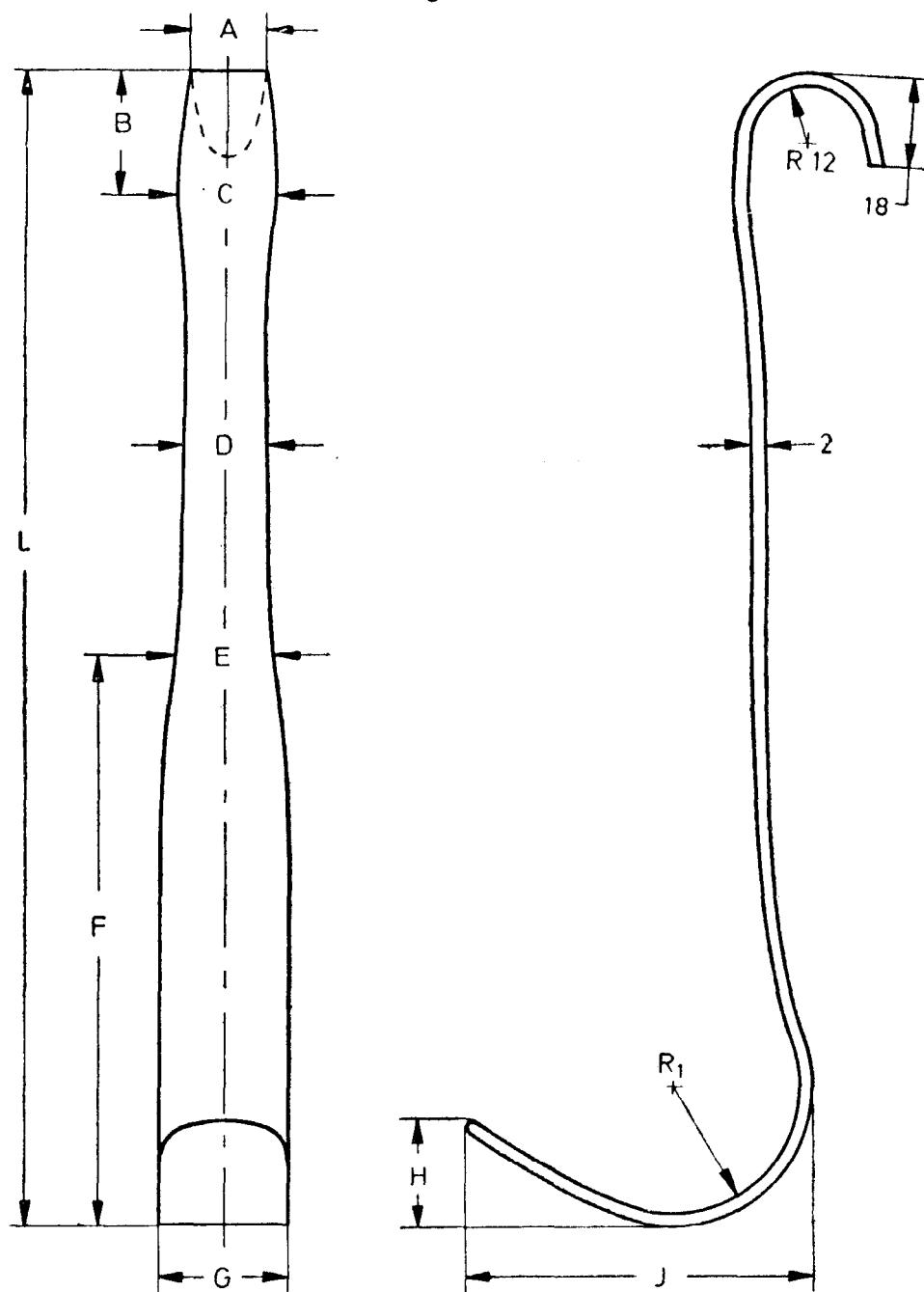


Indian Standard

SPECIFICATION FOR RETRACTOR, DEAVER'S PATTERN

1. Scope — Covers the dimensional and other requirements for Deaver's pattern retractor used in general surgery.

2. Shape and Dimensions — As shown in Fig. 1.



Size	L	A	B	C	D	E	F	G	H	J	R ₁
Large	320	19	65	28	20	23	200	52	30	125	55
Small	235	15	25	20	17	20	115	26	22	70	26

All dimensions in millimetres.

FIG. 1 RETRACTOR, DEAVER'S PATTERN

Adopted 25 October 1978

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Gr 1

2.1 A deviation of \pm 2.5 percent shall be allowed on all dimensions.

3. Material — Stainless steel conforming to Designation 20Cr13 or 30Cr13 of IS: 6603-1972 'Specification for stainless steel bars and flats'.

4. Workmanship and Finish

4.1 The retractor shall be well and evenly finished.

4.2 The retractor shall be free from any burrs, pits, cracks and other surface defects.

4.3 The edges of the blade shall be properly rounded and there shall be no sharp edges.

4.4 The retractor shall be polished bright and passivated.

5. Heat Treatment — The retractor shall be hardened and tempered to give a hardness of 380 to 430 HV.

6. Tests

6.1 Rigidity Test — The retracting part of the blade shall be applied to the edge of the chair or table. It shall be pulled manually by exerting a maximum force along the axis of the handle. The retractor shall show no sign of damage or permanent set.

6.1.1 A load of 25 kg shall be suspended from the top of the turned end of the retracting blade. The maximum load shall be gradually attained and maintained for 2 minutes. On completion of the test the retractor shall show no sign of damage.

6.2 Corrosion Resistance — Test the retractor in accordance with IS: 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. It shall show no sign of corrosion after the test.

7. Marking — The retractor shall be legibly and indelibly marked with the manufacturer's name initials or recognized trade-mark and the words 'Stainless Steel'. The marking shall be done preferably by electrical etching and not by stamping.

7.1 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — As agreed to between the purchaser and the supplier.